

5 DELIVERY OF DNA OR RNA VIA GAP JUNCTIONS FROM HOST CELLS TO  
TARGET CELLS AND A CELL-BASED DELIVERY SYSTEM FOR ANTISENSE OR  
siRNA

Abstract of the Disclosure

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A method of delivering an oligonucleotide or a plasmid  
expressing an oligonucleotide into a target cell comprises  
introducing an oligonucleotide into a donor cell, particularly  
a stem cell, and contacting the target cell with the donor  
15 cell under conditions permitting the donor cell to form a gap  
junction with the target cell, whereby the oligonucleotide or  
a product of the oligonucleotide is delivered into the target  
cell from the donor cell.